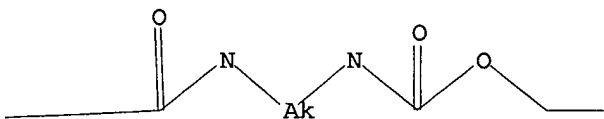


L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 13:26:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13542 TO ITERATE

7.4% PROCESSED 1000 ITERATIONS 39 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 263879 TO 277801
PROJECTED ANSWERS: 9184 TO 11940

L2 39 SEA SSS SAM L1

L3 52 L2

=> s l3 and fluorinated polyol and polyisocyanate

28908 FLUORINATED

30687 POLYOL

13 FLUORINATED POLYOL

(FLUORINATED(W) POLYOL)

16268 POLYISOCYANATE

L4 0 L3 AND FLUORINATED POLYOL AND POLYISOCYANATE

=> s l1 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 13:27:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 273450 TO ITERATE

100.0% PROCESSED 273450 ITERATIONS 11163 ANSWERS
SEARCH TIME: 00.00.07

L5 11163 SEA SSS FUL L1

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L6      3148 L5
=> s 15 and fluorinated polyol and polyisocyanate
      3148 L5
      28908 FLUORINATED
      30687 POLYOL
      13 FLUORINATED POLYOL
        (FLUORINATED (W) POLYOL)
      16268 POLYISOCYANATE
L7      0 L5 AND FLUORINATED POLYOL AND POLYISOCYANATE

=> s 15 and fluorin? polyol and polyisocyanate
      3148 L5
      110312 FLUORIN?
      30687 POLYOL
      15 FLUORIN? POLYOL
        (FLUORIN? (W) POLYOL)
      16268 POLYISOCYANATE
L8      0 L5 AND FLUORIN? POLYOL AND POLYISOCYANATE

=> s 15 and fluor? polyol and polyisocyanate
      3148 L5
      916290 FLUOR?
      30687 POLYOL
      63 FLUOR? POLYOL
        (FLUOR? (W) POLYOL)
      16268 POLYISOCYANATE
L9      0 L5 AND FLUOR? POLYOL AND POLYISOCYANATE

=> s 15 and fluor? and polyol and polyisocyanate
      3148 L5
      916290 FLUOR?
      30687 POLYOL
      16268 POLYISOCYANATE
L10     0 L5 AND FLUOR? AND POLYOL AND POLYISOCYANATE

=> s 15 and fluor?
      3148 L5
      916290 FLUOR?
L11     456 L5 AND FLUOR?

=> s 15 and fluor? and polyol
      3148 L5
      916290 FLUOR?
      30687 POLYOL
L12     0 L5 AND FLUOR? AND POLYOL

=> s 16 and fluor? and polyol
      916290 FLUOR?
      30687 POLYOL
L13     0 L6 AND FLUOR? AND POLYOL

=> s fluor? and polyol and polyisocyanate
      916290 FLUOR?
      30687 POLYOL
      16268 POLYISOCYANATE
L14     223 FLUOR? AND POLYOL AND POLYISOCYANATE

=> s fluor? and polyol and polyisocyanate and perfluoroalkyl
      916290 FLUOR?
      30687 POLYOL
      16268 POLYISOCYANATE
      9158 PERFLUOROALKYL
L15     9 FLUOR? AND POLYOL AND POLYISOCYANATE AND PERFLUOROALKYL

=> d 1-9 ibib abs hitstr

L15 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS

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ACCESSION NUMBER: 1998:89 CAPLUS
 DOCUMENT NUMBER: 128:116558
 TITLE: **Fluorinated** urethane oligomers and their use
 in oleo- and hydrophobization of various substrates,
 especially leather
 INVENTOR(S): Bonardi, Christian; Corpart, Jean Marc; Garcia,
 Gilbert; Sebire, Pascal
 PATENT ASSIGNEE(S): ELF Atochem S. A., Fr.
 SOURCE: Fr. Demande, 26 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2749309	A1	19971205	FR 1996-6601	19960529

AB Oligomers contg. .gtoreq.15 wt.% F are obtained by reaction of 1 equiv of
 .gtoreq.1 **polyisocyanate** with (a) a compd. contg. a
perfluoroalkyl radical and a nucleophilic group having active H
 0.2-0.8, (b) a **polyol** having a C.gtoeq.16 aliph. chain 0.2-1.8,
 and (c) other compds. reactive with NCO groups 0-0.45 equiv. Thus, TDI
 61, C8F17CH2CH2OH 128, and Noramox S 2 83 g were mixed at 80.degree. to
 the disappearance of NCO activity and dild. to 10% solids with iso-ProAc
 to give a clear yellow liq. contg. 3.2% F, which was further dild. to 2%
 solids and sprayed onto leather at 250 g/m2. The same soln. was used for
 waterproofing of terra cotta bricks.

L15 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:326160 CAPLUS
 DOCUMENT NUMBER: 124:346197
 TITLE: Soil-, water- and oil-resistant coating compositions
 containing **fluorosilicones**
 INVENTOR(S): Yamaguchi, Seitaro; Tomihashi, Nobuyuki; Ogita,
 Koichiro
 PATENT ASSIGNEE(S): Daikin Ind Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08060030	A2	19960305	JP 1994-193946	19940818

AB The compns. contain 100 parts film-forming components and 0.01-8.0 parts
 specified **fluorosilicones** as modifiers. Reacting alc.-modified
 silicone (KF 6001) with perfluoroisononyl propylene oxide and stirring
 (0.50 part) with Almatex P646 54, Cymel 303 18, P-TsOH 0.50, titanium
 white 28, and solvents (BuOAc and others) 67 parts gave a coating with
 water contact angle 105.degree. and good soil resistance against red ink.

L15 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:121072 CAPLUS
 DOCUMENT NUMBER: 124:148661
 TITLE: Synthetic fiber ropelike materials with improved
 abrasion resistance and bending fatigue resistance
 INVENTOR(S): Murayama, Sadamitsu
 PATENT ASSIGNEE(S): Teijin Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 07305277 A2 19951121 JP 1994-97374 19940511
 JP 3137832 B2 20010226

AB The title materials are prepd. by coating cords with tenacity .gtoreq.18 g/denier and elongation .ltoreq.10% with compns. contg. polyurethanes (e.g., polycarbonate **polyol**-aliph. **polyisocyanate** copolymers), oxidized polyethylene (I) with mol. wt. 1000-7000, **fluoropolymers** (e.g., PTFE, chlorotetrafluoroethylene homopolymer, hexafluoropropylene-tetrafluoroethylene copolymer, tetrafluoroethylene-**perfluoroalkyl** vinyl ether copolymers, hexafluoropropylene-**perfluoroalkyl** vinyl ether copolymers, poly(vinylidene fluoride), and/or ethylene-tetrafluoroethylene copolymer), ethyleneurea compds. with a specified structure, and organopolysiloxanes (e.g., di-Me polysiloxane or modified polysiloxanes with a specified structure) at specified wt. ratio. Thus, 1500-denier/1000-filament para-aramid fibers (Technora) were impregnated with an aq. dispersion contg. polycarbonate **polyol**-aliph. **polyisocyanate** copolymer 35, I 55, PTFE 5, diphenylmethanediethyleneurea 5, and di-Me silicone 0.2 part (as solids), dried, heat treated 1 min at 180.degree. to give fibers with finish content 5.0% (as solids). The fibers were twisted and plied to give cords with abrasion resistance by a specified test 3250 cycles (A method) and 134,000 cycles (B method) and bending fatigue resistance by a specified test (A method) 540,000 cycles.

L15 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:659522 CAPLUS
 DOCUMENT NUMBER: 123:34825
 TITLE: Compositions and methods for manufacture of rigid foams
 INVENTOR(S): De Vos, Rik
 PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
 SOURCE: U.S., 6 pp. Cont.-in part of U.S. 5,238,970.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5391584	A	19950221	US 1993-27533	19930308
ZA 9201888	A	19921230	ZA 1992-1888	19920313
ZA 9201895	A	19921230	ZA 1992-1895	19920313
CN 1067435	A	19921230	CN 1992-102958	19920327
US 5238970	A	19930824	US 1992-974353	19921110
US 5240965	A	19930831	US 1992-974352	19921110
US 5356556	A	19941018	US 1993-61007	19930514
US 5368769	A	19941129	US 1993-67789	19930527
CN 1133854	A	19961023	CN 1995-119832	19951114
CN 1048995	B	20000202		

PRIORITY APPLN. INFO.:
 GB 1991-6967 19910403
 GB 1991-12622 19910612
 GB 1991-17749 19910816
 GB 1991-23205 19911101
 US 1992-852071 19920316
 US 1992-974353 19921110
 GB 1991-27335 19911224
 US 1992-852070 19920316
 US 1992-974352 19921110

AB A method for the prepn. of a rigid polyurethane and/or polyisocyanurate foam comprises reacting a **polyisocyanate** and a **polyol** in the presence of a blowing agent and 0.1-0.5 part (on the wt. of the reaction system) a **fluorinated** inert, insol., non-blowing liq. selected from **fluorinated** hydrocarbons, **fluorinated** ethers, **fluorinated** tertiary amines, **fluorinated** amino-ethers, and **fluorinated** sulfones. CFC-free foams may be obtained showing good insulating properties.

L15 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:35 5 CAPLUS
 DOCUMENT NUMBER: 122:108061
 TITLE: Polyurethane formulation for use in antistatic polyurethane backed textiles
 INVENTOR(S): Fortner, Teresa Kay
 PATENT ASSIGNEE(S): Dow Chemical Co., USA
 SOURCE: PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9412574	A1	19940609	WO 1993-US10238	19931026
W: CA				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2149769	AA	19940609	CA 1993-2149769	19931026
EP 670865	A1	19950913	EP 1993-925048	19931026
EP 670865	B1	19980819		
R: AT, BE, DE, DK, FR, GB, IE, IT, LU, MC, NL, PT, SE				
AT 169947	E	19980915	AT 1993-925048	19931026
PRIORITY APPLN. INFO.:			US 1992-980406	19921124
			WO 1993-US10238	19931026

AB The urethane backings can be as precoats, integral foam pads and removable adhesives, prep'd. from formulations including a **polyisocyanate**, a **polyol** and a cond. inducing agent which is a nonvolatile metal salt of a **fluoroalkyl** sulfonic acid. The antistatic textiles are particularly useful as antistatic floor coverings such as carpets. Admixing ethylene oxide capped propylene oxide polyether triol, ethylene oxide capped propylene oxide polyether diol (mol. wt. 2000), diethylene glycol, **Fluorad** FC-98 (antistatic agent), ethylene oxide capped propylene oxide polyether diol (mol. wt. 1000), catalyst, silicone surfactant, dipropylene glycol/tripropylene glycol-MDI prepolymer (NCO equiv. wt. 181), and crude MDI (NCO equiv. wt. 133) gave a urethane foam having verticle resistivity 37 M-.OMEGA., vs. 31,000 M-.OMEGA. without **Fluorad** FC-98 or low mol. wt. diol.

L15 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:410415 CAPLUS
 DOCUMENT NUMBER: 119:10415
 TITLE: Aqueous oil- and water-repellent compositions for textile fibers and fabrics
 INVENTOR(S): Smith, Richard S.; Audenaert, Frans A.
 PATENT ASSIGNEE(S): Minnesota Mining and Mfg. Co., USA
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9301349	A1	19930121	WO 1992-US5469	19920629
W: AU, CA, JP, KR				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
AU 9222976	A1	19930211	AU 1992-22976	19920629
PRIORITY APPLN. INFO.:			US 1991-727989	19910710
			WO 1992-US5469	19920629

AB Title compn. requiring no thermal treatment comprises an aq., substantially solvent-free soln. or dispersion of (a) a copolymer of a **fluorinated** acrylate, polyalkylene glycol acrylate or methacrylate, and a polyalkylene glycol diacrylate or dimethacrylate and/or (b) a polyoxyalkylated polyurethane having pendant **perfluoroalkyl** groups comprised of an aliph or arom. tri- or **polyisocyanate**, a **fluorinated** alc., amine or mercaptan, and a polyoxyalkylene diol or dithiol. A dispersion of a polyurethane

prepd. from Desmodur N 100 (diisocyanate) 1.08, N-methylperfluorooctanesulfonamidoethyl alc. 1.8, and Carbowax 1450 [poly(oxy-C2-4 alkylene) **polyol**] 0.72 mol, imparted good oil and water repellency to cotton, cotton-polyester, and polyolefin textiles.

L15 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991:186930 CAPLUS
DOCUMENT NUMBER: 114:186930
TITLE: Hard foam and its preparation
INVENTOR(S): Wenning, Udo; Brodsky, Jan
PATENT ASSIGNEE(S): Bosch-Siemens Hausgeraete G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 405439	A2	19910102	EP 1990-112116	19900626
EP 405439	A3	19910925		
EP 405439	B1	19951018		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DE 3930824	A1	19910228	DE 1989-3930824	19890914
DE 3936245	A1	19910103	DE 1989-3936245	19891031
DE 4008545	A1	19910919	DE 1990-4008545	19900316
DD 300436	A5	19920611	DD 1990-342108	19900626
AT 129265	E	19951115	AT 1990-112116	19900626
ES 2079398	T3	19960116	ES 1990-112116	19900626
JP 03054231	A2	19910308	JP 1990-172523	19900627
HU 55818	A2	19910628	HU 1990-4018	19900627
RU 2060260	C1	19960520	RU 1990-4830353	19900627
CA 2020052	AA	19901229	CA 1990-2020052	19900628
AU 9057970	A1	19910103	AU 1990-57970	19900628
AU 632142	B2	19921217		
US 5034424	A	19910723	US 1990-547830	19900628
BR 9003035	A	19910820	BR 1990-3035	19900628

PRIORITY APPLN. INFO.:

DE 1989-3921223	19890628
DE 1989-3930824	19890914
DE 1989-3936245	19891031
DE 1990-4008545	19900316

AB Hard foams, esp. closed-cell polyurethane and polyisocyanurate foams, with cells having uniform structures and contg. mainly CO2 and smaller amts. of phys. blowing agents essentially insol. in the foam ingredients, are prepd. for thermal insulators. A mixt. of **polyol** (OH no. 370 .+-. 10, H2O content 3.15%) 100, MDI 161, C5F12 24, and silica gel (particle size 5-10 .mu.m, pore diam. 60 .ANG.) 0.72 part gave a foam with bulk d. 36.8 kg/m3, thermal cond. 18.5 mW/K-m, compressive strength 16.8 N/cm2, and closed cell content 94%.

L15 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:155425 CAPLUS
DOCUMENT NUMBER: 110:155425
TITLE: **Perfluoroalkyl polyisocyanate** compositions
INVENTOR(S): Watanabe, Hiroyuki; Washita, Hiroshi; Kuga, Kazuhiko
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 283892	A1	19880928	EP 1988-104001	19880314
EP 283892	B1	19930609		

R: BE, DE, FR, GB
JP 01056715 A2 19890303 JP 1988-56350 19880311
JP 2643248 B2 19970820
PRIORITY APPLN. INFO.: JP 1987-64249 19870320
OTHER SOURCE(S): MARPAT 110:155425

AB Reaction products of .gtoreq.C3 **perfluoroalkyl** compds. and .ltoreq.15% excess polyisocyanates are wettable and useful in the manuf. of sheets or films by casting on release sheets. Stirring 50.38 g polycaprolactone (I) diol, 21.59 g I triol, 10.8 g 1,4-butanediol, and 37.24 g **polyisocyanate** [prepd. from TDI, (2-perfluorooctyl)ethyl acrylate, polyethylene glycol monomethacrylate, and polypropylene glycol monomethacrylate] at 80.degree. gave a uniform mixt. Casting this mixt. on PET, heating at 140.degree. for 1 h, and peeling from the PET gave a 0.5-mm transparent sheet with a flawless appearance.

L15 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1985:524468 CAPLUS
DOCUMENT NUMBER: 103:124468
TITLE: Internal mold release for reaction injection molded polyurethanes
INVENTOR(S): Kuo, An Li; Goddard, Errol Desmond; Ritscher, James Stephen
PATENT ASSIGNEE(S): Union Carbide Corp. , USA
SOURCE: Eur. Pat. Appl., 65 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 138130	A2	19850424	EP 1984-111659	19840928
EP 138130	A3	19861001		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4585829	A	19860429	US 1984-614712	19840529
JP 60094417	A2	19850527	JP 1984-202158	19840928
PRIORITY APPLN. INFO.:		US 1983-537946		19830930
		US 1984-614712		19840529

AB Reaction injection molded polyurethanes are given internal mold release properties by addn. of $R(CH_2)_mZ(CH_2)_nCO_2M$ (I) ($R = C_4-12$ **perfluoroalkyl**; $Z = O, S, (OC_2H_4)_1-90$, or -; $M = H$, alkali metal, amine, or alkyl; $m, n = 1-10$) to a compn. contg. polymeric **polyol**, **polyisocyanate**, and catalyst. Thus, an acrylonitrile-ethylene oxide-propylene oxide **polyol** 89, ethylene glycol solvent 11, $Bu_2Sn(O_2CCl_1H_{23})_2$ catalyst 0.25, Isonate 143 L -, and Zonyl FSA [57534-43-7] (I where $m = n = 2$, $Z = S$, and $M = Li$ and iso-Pr) 1.0 part were stirred 4 h and molded at 160.degree. F to give a polyurethane [97917-20-9] having low release force. The mold showed only a slight accumulation after 8 molding cycles and that gradually dissipated through 40 cycles.